



INTERNATIONAL
ACCREDITATION
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CERTIFICATE OF ACCREDITATION

This is to attest that

CCIC-CSA INTERNATIONAL CERTIFICATION CO., LTD. KUNSHAN BRANCH

2F-1, BUILDING C12, NO 555 DUJUAN ROAD, KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE
KUNSHAN, JIANGSU, 215331, CHINA

Testing Laboratory TL-550

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date September 6, 2024



International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

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www.csagroup.org

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Accredited to ISO/IEC 17025:2017

Effective Date September 6, 2024

Electrical	
ANSI/CAN/UL 2849	Electrical Systems for eBikes (except clauses 12.7 and 13.2.1.7)
ANSI/CAN/UL 3030	Unmanned Aircraft Systems (except clauses 8.9 and 15.6)
ANSI/CAN/UL 3100	Automated Mobile Platforms (AMPs)
ANSI/CAN/UL 3741	Photovoltaic Hazard Control
ANSI/NEMA C18.1M Part 1	American national standard for portable primary cells and batteries with aqueous electrolyte—general and specifications
ANSI/NEMA C18.1M Part 2	American national standard for portable primary cells and batteries with aqueous electrolyte—safety standard
ANSI/NEMA C18.2M Part 1	American national standard for portable rechargeable cells and batteries—general and specifications
ANSI/NEMA C18.2M Part 2	American national standard for portable rechargeable cells and batteries—safety standard
ANSI/NEMA C18.3M Part 1	American national standard for portable lithium primary cells and batteries—general and specifications
ANSI/NEMA C18.3M Part 2	American national standard for portable lithium primary cells and batteries—safety standard
ANSI/UL 583	Electric-Battery-Powered Industrial Trucks (except clauses 22 and 51)
ANSI/UL 62133-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes — Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications — Part 1: Nickel systems
ANSI/UL 62133-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes — Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications — Part 2: Lithium systems
AS/NZS 3100	Approval and test specification— general requirements for electrical equipment
AS/NZS 4777.2	Grid connection of energy systems via inverters - inverter requirements
AS/NZS 5033	Installation and safety requirements for photovoltaic (PV) arrays
AS/NZS 5139	Electrical installations - Safety of battery systems for use with power conversion equipment

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AS 62040.1	Uninterruptible power systems (UPS) Safety requirements
C22.2 NO. 0.23	General requirements for battery-powered appliances
C22.2 NO. 107.1	Power conversion equipment (except sections 6.11, 6.14, 9, 12, and 13)
C22.2 NO. 107.3	Uninterruptible power systems (bi-national standard, with UL 1778)
C22.2 NO. 182.5	Photovoltaic connectors (previously TIL A-36)
C22.2 NO. 280	Electric vehicle supply equipment (tri-national standard, with UL 2594 and NMX-J-677-ANCE)
C22.2 NO. 290	Photovoltaic combiners and recombiners (except sections 6.4 and 6.5)
CAN/CSA-C22.2 NO. 281.1	Standard for safety for personnel protection systems for electric vehicle (EV) supply circuits: general requirements (Tri-national standard, with UL 2231-1 and NMX-J-668/1-ANCE)
CAN/CSA-C22.2 NO. 281.2	Standard for safety for personnel protection systems for electric vehicle (EV) supply circuits: particular requirements for protection devices for use in charging systems (tri-national standard, with UL 2231-2 and NMX-J-668/2-ANCE) (except sections 24.3, 24.4, 24.5, 24.8, 24.9, 32 and 39)
CAN/CSA-C22.2 No. 60086-1	Primary batteries — Part 1: General
CAN/CSA C22.2 No. 60086-4	Primary batteries — Part 4: Safety of lithium batteries
CAN/CSA C22.2 No. 60950-22	Information technology equipment — Safety — Part 22: Equipment to be installed outdoors (only section 9.1; 9.3 and 10.2)
CSA-C22.2 NO. 61730-1	Photovoltaic (PV) module safety qualification - part 1: requirements for construction
CSA-C22.2 NO. 61730-2	Photovoltaic (PV) module safety qualification - part 2: requirements for testing
CAN/CSA-C22.2 NO. 62133	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications
CAN/CSA-C22.2 No. 62133-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes — Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications — Part 1: Nickel systems
CAN/CSA-C22.2 No. 62133-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes — Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications — Part 2: Lithium systems
CAN/CSA-C22.2 NO. 62109-1	Safety of power converters for use in photovoltaic power systems - Part 1: General requirements
CAN/CSA-C22.2 NO. 62109-2	Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters
CAN/CSA-C22.2 No. 62368-1	Audio/video, information and communication technology equipment— Part 1: Safety requirements: Equipment containing batteries and their protection circuits (Annex M)

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CAN/CSA-C22.2 NO. 62841-1	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - safety - part 1: general requirements (bi-national standard with UL 62841-1) (Annex K)
CAN/CSA-C381.2	Energy performance of battery-charging systems and uninterruptible power supplies
CAN/CSA-C61215	Crystalline silicon terrestrial photovoltaic (PV) modules - design qualification and type approval
CAN/CSA-E60335-2-79	Household and similar electrical appliances — Safety — Part 2-79: Particular requirements for high pressure cleaners and steam cleaners (except sections 14, 17, 30, 31, 32)
CAN/CSA-E60730-1	Automatic electrical controls - part 1: general requirements (except sections 21, 23, 24, Annex D, G, H21, H22, H26.4, H26.11, H26.12 and H26.14)
CAN/CSA-E61951-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes - portable sealed rechargeable single cells - part 1: nickel-cadmium
CAN/CSA-E61951-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes - portable sealed rechargeable single cells - part 2: nickel-metal hydride
CAN/CSA-E61959	Secondary cells and batteries containing alkaline or other non-acid electrolytes - mechanical tests for sealed portable secondary cells and batteries
CAN/CSA-E62133	Secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications
CAN/CSA-E62660-1	Secondary lithium-ion cells for the propulsion of electric road vehicles - part 1: performance testing
CAN/CSA-E62660-2	Secondary lithium-ion cells for the propulsion of electric road vehicles - part 2: reliability and abuse testing
CAN/CSA-IEC 61646	Thin-film terrestrial photovoltaic (PV) modules - design qualification and type approval
CSA/ANSI C22.2 No 340	Battery Management Systems
CSA/ANSI C450	Photovoltaic (PV) module testing protocol for quality assurance programs
CSA TIL M-07	Interim certification requirements for photovoltaic (PV) dc arc-fault protection
CSA TIL NO. I-44	Interim certification requirements for supply equipment for electric vehicles with inputs and outputs rated 600 V or less
CSA C22.2 NO. 0.8	Safety functions incorporating electronic technology
CSA C22.2 NO. 18.2	Nonmetallic outlet boxes
CSA C22.2 NO. 66.1	Low Voltage Transformers - Part 1: General Requirements
CSA C22.2 NO. 66.2	Low Voltage Transformers - Part 2: General Purpose Transformers
CSA C22.2 NO. 66.3	Low Voltage Transformers - Part 3: Class 2 and Class 3 Transformers
CSA C22.2 NO. 68	Motor-operated appliances (household and commercial) (except sections 6.13, 6.17, 6.19, 6.20)

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CSA C22.2 No. 77	Motors with Inherent Overheating Protection
CSA C22.2 No. 100	Motors and generators
CSA C22.2 NO. 107.2	Battery Chargers
CSA C22.2 NO. 147	Motor-operated gardening appliances (Section 6.8)
CSA C22.2 No. 205	Signal equipment (except clauses 6.12, 6.20.3, 8, 9 and 10)
CSA C22.2 No. 243	Vacuum cleaners, blower cleaners, and household floor finishing machines (Section 5.12)
CSA C22.2 NO. 292	Dc arc fault protection for photovoltaic applications
CSA C22.2 NO. 330	Photovoltaic rapid shutdown systems
CSA C22.2 No. 346	DC Charging Equipment for Electric Vehicles
CSA C22.2 No. 348	Electric Vehicle Power Export Equipment (EVPE)
CSA C22.2 No. 61980-1	Electric vehicle wireless power transfer (WPT) systems — Part 1: General requirements
CSA C22.2 No. 62790	Junction boxes for photovoltaic modules – Safety requirements and tests (except clauses 5.3.11, 5.3.12 and 5.3.14)
CSA C22.3 No. 9	Interconnection of distributed energy resources and electricity supply systems
CSA C810	Energy efficiency and test methodology for EVSE DCFCs
EN 50438	Requirements for microgenerating plants to be connected in parallel with public low-voltage distribution networks
EN 50521	Connectors for photovoltaic systems - Safety requirements and tests (except sections 5.20.2, 5.20.3 and 5.21.1)
EN 50548	Junction boxes for photovoltaic modules (except sections 5.3.11, 5.3.12 and 5.3.14)
EN 60068-2-1	Environmental testing –Part 2-1: Tests –Test A: Cold
EN 60068-2-2	Environmental testing –Part 2-2: Tests – Test B: Dry heat
EN 60068-2-14	Environmental testing –Part 2-14: Tests – Test N: Change of temperature
EN 60068-2-30	Environmental testing –Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)
EN 60086-1	Primary batteries - part 1: general
EN 60086-2	Primary batteries - part 2: physical and electrical specifications
EN 60086-3	Primary batteries - part 3: watch batteries
EN 60086-4	Primary batteries - part 4: safety of lithium batteries
EN 60086-5	Primary batteries - part 5: safety of batteries with aqueous electrolyte
EN 60335-2-79	Household and similar electrical appliances — Safety — Part 2-79: Particular requirements for high pressure cleaners and steam cleaners (except sections 14, 17, 30, 31, 32)

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EN 60730-1	Automatic Electrical Controls Part 1: General Requirements (except sections 21, 23, 24, Annex D, G, H21, H22, H26.4, H26.11, H26.12 and H26.14)
EN 60891	Photovoltaic devices - Procedures for temperature and irradiance corrections to measured I-V characteristics
EN 60904-1	Photovoltaic devices - part 1: measurement of photovoltaic current-voltage characteristics
EN 60904-2	Photovoltaic devices – part 2: requirements for photovoltaic reference devices
EN 60904-3	Photovoltaic devices - part 3: measurement principles for terrestrial photovoltaic (PV) solar devices with reference
EN 60904-4	Photovoltaic devices - part 4: reference solar devices procedures for establishing calibration traceability
EN 60904-9	Photovoltaic devices - part 9: solar simulator performance requirements
EN 60904-10	Photovoltaic devices - part 10: methods of linearity measurement
EN 60950-22	Information technology equipment — Safety — Part 22: Equipment to be installed outdoors (only section 9.1;9.3 and 10.2)
EN 61215	Terrestrial photovoltaic (PV) modules – design qualification and type approval - part 1: test requirements
EN 61215-1	Terrestrial photovoltaic (PV) modules - design qualification and type approval - part 1: test requirements
EN 61215-1-1	Terrestrial photovoltaic (PV) modules - design qualification and type approval - part 1-1: special requirements for testing of crystalline silicon photovoltaic (PV) modules
EN 61215-1-2	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules
EN 61215-1-3	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules
EN 61215-1-4	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se) ₂ based photovoltaic (PV) modules
EN 61215-2	Terrestrial photovoltaic (PV) modules - design qualification and type approval - part 2: test procedures
EN 61646	Thin-film terrestrial photovoltaic (PV) modules – design qualification and type approval
EN 61683	Photovoltaic systems – Power conditioners – Procedure for measuring efficiency
EN 61701	Salt mist corrosion testing of photovoltaic (PV) modules
EN 61727	Photovoltaic (PV) systems – Characteristics of the utility interface

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EN 61730-1	Photovoltaic (PV) module safety qualification - part 1: requirements for construction
EN 61730-2 Ed.1	Photovoltaic (PV) module safety qualification - part 2: requirements for testing (except sections 10.8)
EN 61730-2 Ed.2	Photovoltaic (PV) module safety qualification - part 2: requirements for testing (except sections 10.5, 10.17, 10.18, 10.24 and 10.25)
EN 61851-1	Electric vehicle conductive charging system - part 1: general requirements
EN 61851-23	Electric vehicle conductive charging system - Part 23: DC electric vehicle charging station
EN 61853-1	Photovoltaic (PV) module performance testing and energy rating - part 1: irradiance and temperature performance measurements and power rating
EN 61951-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary sealed cells and batteries for portable applications Part 1: Nickel-Cadmium
EN 61951-2	Secondary cells and batteries containing alkaline or other non acid electrolytes - Secondary sealed cells and batteries for portable applications Part 2: Nickel-metal hydride
EN 61959	Secondary cells and batteries containing alkaline or other non-acid electrolytes - mechanical tests for sealed portable secondary cells and batteries
EN 61960	Secondary cells and batteries containing alkaline or other non-acid electrolytes - secondary lithium cells and batteries for portable applications
EN 62040-1	Uninterruptible power systems (UPS) - Part 1: Safety requirements
EN 62040-1-1	Uninterruptible power systems (UPS) - Part 1-1: General and safety requirements for UPS used in operator access areas
EN 62108	Concentrator photovoltaic (CPV) modules and assemblies - design qualification and type approval
EN 62109-1	Safety of power converters for use in photovoltaic power systems - part 1: general requirements
EN 62109-2	Safety of power converters for use in photovoltaic power systems - part 2: particular requirements for inverters
EN 62116	Utility-interconnected photovoltaic inverters – test procedure of islanding prevention measures
EN 62124	Photovoltaic (PV) stand alone systems - design verification
EN 62133	Secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications
EN 62133-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 1: Nickel systems

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EN 62133-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems
EN 62281	Safety of primary and secondary lithium cells and batteries during transport
EN 62368-1	Audio/video, information and communication technology equipment— Part 1: Safety requirements: Equipment containing batteries and their protection circuits (Annex M)
EN 62391-1	Fixed electric double-layer capacitors for use in electric and electronic equipment - part 1: generic specification
EN 62391-2	Fixed electric double-layer capacitors for use in electronic equipment - part 2: sectional specification – electric double layer capacitors for power application
EN 62446	Photovoltaic (PV) systems - requirements for testing, documentation and maintenance - part 1: grid connected systems - documentation, commissioning tests and inspection
EN 62477-1	Safety requirements for power electronic converter systems and equipment – Part 1: General
EN 62576	Electric double-layer capacitors for use in hybrid electric vehicles - test methods for electrical characteristics
EN 62619	Secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for secondary lithium cells and batteries, for use in industrial applications
EN 62620	Secondary cells and batteries containing alkaline or other non-acid electrolytes - secondary lithium cells and batteries for use in industrial applications
EN 62660-1	Secondary lithium-ion cells for the propulsion of electric road vehicles - part 1: performance testing
EN 62660-2	Secondary lithium-ion cells for the propulsion of electric road vehicles - part 2: reliability and abuse testing
EN 62790	Junction boxes for photovoltaic modules – safety requirements and tests (except sections 5.3.11, 5.3.12 and 5.3.14)
EN 62841-1	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - safety - part 1: general requirements (annex K)
Energy Star	ENERGY STAR Program Requirements for Electric Vehicle Supply Equipment, Version 1.1
Energy Star	ENERGY STAR Program Requirements for Electric Vehicle Supply Equipment, Version 1.2
ER G59/3	Recommendations for the connection of generating plant to the distribution systems of licensed distribution network operators
ER G83/2	Recommendations for the Connection of Type Tested Small-scale Embedded Generators (Up to 16A per Phase) in Parallel with Low-Voltage Distribution Systems

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FM 4473	Impact Resistance Testing of Rigid Roofing Materials by Impacting with Freezer Ice Balls
GB 18287	General specification of lithium-ion cells and batteries for mobile phone
GB 31241	Lithium ion cells and batteries used in portable electronic equipments - safety requirements
IEC 60068-2-1	Environmental testing –Part 2-1: Tests –Test A: Cold
IEC 60068-2-2	Environmental testing –Part 2-2: Tests – Test B: Dry heat
IEC 60068-2-14	Environmental testing –Part 2-14: Tests – Test N: Change of temperature
IEC 60068-2-30	Environmental testing –Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)
IEC 60086-1	Primary batteries - part 1: general
IEC 60086-2	Primary batteries - part 2: physical and electrical specifications
IEC 60086-3	Primary batteries - part 3: watch batteries
IEC 60086-4	Primary batteries - part 4: safety of lithium batteries
IEC 60086-5	Primary batteries - part 5: safety of batteries with aqueous electrolyte
IEC 60335-2-79	Household and similar electrical appliances — Safety — Part 2-79: Particular requirements for high pressure cleaners and steam cleaners (except sections 14, 17, 30, 31, 32)
IEC 60730-1	Automatic Electrical Controls Part 1: General Requirements (except sections 21, 23, 24, Annex D, G, H21, H22, H26.4, H26.11, H26.12 and H26.14)
IEC 60891	Photovoltaic devices - Procedures for temperature and irradiance corrections to measured I-V characteristics
IEC 60904-1	Photovoltaic devices - part 1: measurement of photovoltaic current-voltage characteristics
IEC 60904-2	Photovoltaic devices – part 2: requirements for photovoltaic reference devices
IEC 60904-3	Photovoltaic devices - part 3: measurement principles for terrestrial photovoltaic (PV) solar devices with reference
IEC 60904-4	Photovoltaic devices - part 4: reference solar devices procedures for establishing calibration traceability
IEC 60904-9	Photovoltaic devices - part 9: solar simulator performance requirements
IEC 60904-10	Photovoltaic devices - part 10: methods of linearity measurement
IEC 60950-22	Information technology equipment — Safety — Part 22: Equipment to be installed outdoors (only section 9.1;9.3 and 10.2)
IEC 61215	Terrestrial photovoltaic (PV) modules – design qualification and type approval - part 1: test requirements
IEC 61215-1	Terrestrial photovoltaic (PV) modules - design qualification and type approval - part 1: test requirements

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IEC 61215-1-1	Terrestrial photovoltaic (PV) modules - design qualification and type approval - part 1-1: special requirements for testing of crystalline silicon photovoltaic (PV) modules
IEC 61215-1-2	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules
IEC 61215-1-3	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules
IEC 61215-1-4	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se) ₂ based photovoltaic (PV) modules
IEC 61215-2	Terrestrial photovoltaic (PV) modules - design qualification and type approval - part 2: test procedures
IEC 61646	Thin-film terrestrial photovoltaic (PV) modules – design qualification and type approval
IEC 61683	Photovoltaic systems – Power conditioners – Procedure for measuring efficiency
IEC 61701	Salt mist corrosion testing of photovoltaic (PV) modules
IEC 61727	Photovoltaic (PV) systems – Characteristics of the utility interface
IEC 61730-1	Photovoltaic (PV) module safety qualification - part 1: requirements for construction
IEC 61730-2 Ed.1	Photovoltaic (PV) module safety qualification - part 2: requirements for testing (except sections 10.8)
IEC 61730-2 Ed.2	Photovoltaic (PV) module safety qualification - part 2: requirements for testing (except sections 10.17 and 10.18)
IEC 61730-2 Ed.3	Photovoltaic (PV) module safety qualification – Part 2: Requirements for testing (except sections 10.17, 10.18)
IEC 61851-1	Electric vehicle conductive charging system - part 1: general requirements
IEC 61851-23	Electric vehicle conductive charging system - Part 23: DC electric vehicle charging station
IEC 61853-1	Photovoltaic (PV) module performance testing and energy rating - part 1: irradiance and temperature performance measurements and power rating
IEC 61951-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes - portable sealed rechargeable single cells - part 1: nickel-cadmium
IEC 61951-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes - portable sealed rechargeable single cells - part 2: nickel-metal hydride
IEC 61959	Secondary cells and batteries containing alkaline or other non-acid electrolytes - mechanical tests for sealed portable secondary cells and batteries

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IEC 61960	Secondary cells and batteries containing alkaline or other non-acid electrolytes - secondary lithium cells and batteries for portable applications
IEC 62040-1	Uninterruptible power systems (UPS) - Part 1: Safety requirements
IEC 62040-1-1	Uninterruptible power systems (UPS) - Part 1-1: General and safety requirements for UPS used in operator access areas
IEC 62093	Photovoltaic system power conversion equipment – Design qualification and type approval (except sections 7.8 and 7.9)
IEC 62108	Concentrator photovoltaic (CPV) modules and assemblies - design qualification and type approval
IEC 62109-1	Safety of power converters for use in photovoltaic power systems - part 1: general requirements
IEC 62109-2	Safety of power converters for use in photovoltaic power systems - part 2: particular requirements for inverters
IEC 62109-3	Safety of power converters for use in photovoltaic power systems - Part 3: Particular requirements for electronic devices in combination with photovoltaic elements
IEC 62116	Utility-interconnected photovoltaic inverters – test procedure of islanding prevention measures
IEC 62124	Photovoltaic (PV) stand alone systems - design verification
IEC 62133	Secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications
IEC 62133-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 1: Nickel systems
IEC 62133-2	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems
IEC 62281	Safety of primary and secondary lithium cells and batteries during transport
IEC 62368-1	Audio/video, information and communication technology equipment— Part 1: Safety requirements: Equipment containing batteries and their protection circuits (Annex M)
IEC 62391-1	Fixed electric double-layer capacitors for use in electric and electronic equipment - part 1: generic specification
IEC 62391-2	Fixed electric double-layer capacitors for use in electronic equipment - part 2: sectional specification – electric double layer capacitors for power application
IEC 62446	Photovoltaic (PV) systems - requirements for testing, documentation and maintenance - part 1: grid connected systems - documentation, commissioning tests and inspection
IEC 62477-1	Safety requirements for power electronic converter systems and equipment – Part 1: General

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IEC 62576	Electric double-layer capacitors for use in hybrid electric vehicles - test methods for electrical characteristics
IEC 62619	Secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for secondary lithium cells and batteries, for use in industrial applications
IEC 62620	Secondary cells and batteries containing alkaline or other non-acid electrolytes - secondary lithium cells and batteries for use in industrial applications
IEC 62660-1	Secondary lithium-ion cells for the propulsion of electric road vehicles - part 1: performance testing
IEC 62660-2	Secondary lithium-ion cells for the propulsion of electric road vehicles - part 2: reliability and abuse testing
IEC 62790	Junction boxes for photovoltaic modules – safety requirements and tests (except sections 5.3.11, 5.3.12 and 5.3.14)
IEC 62841-1	Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - safety - part 1: general requirements (annex K)
IEC 62852	Connectors for DC-application in photovoltaic systems – Safety requirements and tests (except sections 5.19.2, 5.19.3)
IEC 62891	Maximum power point tracking efficiency of grid connected photovoltaic inverters
IEC 62933-2-1	Electrical energy storage (EES) systems – Part 2-1: Unit parameters and testing methods – General specification
IEC 62933-5-1	Electrical energy storage (EES) systems – Part 5-1: Safety considerations for grid-integrated EES systems – General specification
IEC 62933-5-2	Electrical energy storage (EES) systems – Part 5-2: Safety requirements for grid-integrated EES systems – Electrochemical-based systems
IEC 63027	Photovoltaic power systems – DC arc detection and interruption
IEC 63056	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems
IEC 63057	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium batteries for use in road vehicles not for the propulsion
IEC 63118-1	12 V lithium-ion secondary batteries for automotive starting, lighting, ignition (SLI) applications and auxiliary purposes – Part 1: General requirements and methods of test
IEC TS 62782	Photovoltaic (PV) modules – Cyclic (dynamic) mechanical load testing
IEC TS 62804-1	Photovoltaic (PV) modules - test methods for the detection of potential-induced degradation - part 1: crystalline silicon
IEC TS 62804-1-1	Photovoltaic (PV) modules – Test methods for the detection of potential-induced degradation – Part 1-1: Crystalline silicon – Delamination

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IEC TS 63126	Guidelines for qualifying PV modules, components and materials for operation at high temperatures
IEC TS 63209-1	Photovoltaic modules – Extended-stress testing –Part 1: Modules
IEC TS 63209-2	Photovoltaic modules – Extended-stress testing – Part 2: Polymeric component materials
IEC TS 63342	C-Si photovoltaic (PV) modules – Light and elevated temperature induced degradation (LETID) test – Detection
IEC TS 63397	Photovoltaic (PV) modules – Qualifying guidelines for increased hail resistance
IEEE 519	IEEE Recommended Practice and Requirements for Harmonic Control in Electric Power Systems
IEEE 1547	IEEE standard for interconnecting distributed resources with electric power systems
IEEE 1547.1	IEEE standard conformance test procedures for equipment interconnecting distributed resources with electric power systems (except section 5.8.1)
IEEE 2030.7	IEEE Standard for the Specification of Microgrid Controllers
IEEE 2030.8	IEEE Standard for the Testing of Microgrid Controllers
IEEE C62.41.1	Guide on the surge environment in low-voltage (1000 V and less) AC power circuits
IEEE C62.41.2	Recommended Practice on characterization of surges in low-voltage (1000 V and less) AC power circuits (except sections 7.2 and 7.3)
IEEE C62.45	IEEE Recommended Practice on Surge Testing for Equipment Connected to Low-Voltage (1000 V and Less) AC Power Circuits
IEEE SA 1625	IEEE standard for rechargeable batteries for multi-cell mobile computing devices
IEEE SA 1725	IEEE standard for rechargeable batteries for cellular telephones
IS 14286	Crystalline silicon terrestrial photovoltaic modules-Design qualification and type approval: Solar Photovoltaic energy system
IS 16077	Thin film terrestrial photovoltaic modules-Design qualification and type approval
IS 16169	Test Procedure of Islanding Prevention Measures for Utility-Interconnected Photovoltaic Inverters
IS 16221 (Part 1)	Safety of Power Converters for use in Photovoltaic Power Systems Part 1- General Requirements
IS 16221 (Part 2)	Safety of Power Converters for Use in Photovoltaic Power Systems Part 2- Particular Requirements for Inverters
IS 61730-1	Photovoltaic Module safety qualification Part-1-Requirements for construction
IS 61730-2	Photovoltaic Module Safety Qualification Part 2 Requirements for Testing (except sections 10.8)



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JIS C62133-2	Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications — Part 2: Lithium systems
KC 62133	Safety requirements for portable lithium secondary cells, and for batteries made from them, for use in portable applications
LTR AE-001	Photovoltaic module racking systems
LTR AE-002	Photovoltaic tracking systems
NB/T 32004	Technical specification of grid-connected PV inverter
NEMA 250	Enclosures for Electrical Equipment (1000 Volts Maximum)
NMX J-677-ANCE	Electric vehicle supply equipment
UL 73	Standard for motor-operated appliances (Section 50)
UL 82	Standard for electric gardening appliances (Section 34)
UL 458	Power Converters/Inverters and Power Converter/Inverter Systems for Land Vehicles and Marine Crafts
UL 458A	Outline of investigation for power converters/inverters for electric land vehicles (except sections 40, 45.7, 48 and 49)
UL 810A	Standard for electrochemical capacitors
UL 916	Safety for Energy Management Equipment (except clauses 49.2, 51, 55, 56, 58 and 59)
UL 991	Tests for Safety-Related Controls Employing Solid-State Devices (Except clauses 14.8, 14.10, 15, 20)
UL 1004-1	Rotating Electrical Machines – General Requirements
UL 1004-2	Impedance Protected Motors
UL 1004-3	Thermally Protected Motors
UL 1012	Power Units Other Than Class 2
UL 1017	Vacuum cleaners, blower cleaners, and household floor finishing machines (Section 5.12)
UL 1090	Electric Snow Movers (Section 34 and 36)
UL 1310	Class 2 Power Units
UL 1447	Electric Lawn Mowers (Section 32)
UL 1450	Standard for motor-operated air compressors, vacuum pumps, and painting equipment (Section 49)
UL 1642	Standard for Lithium Batteries
UL 1699B	Photovoltaic (PV) dc arc-fault circuit-interrupters
UL 1703	Standard for flat-plate photovoltaic modules and panels (except sections 31, 34, 37, 38, and 40)



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UL 1741	Standard for inverters, converters, controllers and interconnection system equipment for use with distributed energy resources
UL 1776	High-Pressure Cleaning Machines (except section 66A, 90, 92 to 107)
UL 1778	Uninterruptible power systems
UL 1973	Standard for Safety Batteries for Use in Stationary and Motive Auxiliary Power Applications (except section 27.2, 27.3, 27.6, 27.7 and 41)
UL 1989	Standards for Valve Regulated or Vented Batteries with Aqueous Electrolytes
UL 2054	Standard for household and commercial batteries
UL 2056	Outline of investigation for safety of Lithium-ion Power Banks
UL 2202	Standard for electric vehicle (EV) charging system equipment
UL 2218	Impact Resistance of Prepared Roof Covering Materials
UL 2218A	Impact Resistance of Roofing Systems
UL 2231-1	Standard for safety for personnel protection systems for electric vehicle (EV) supply circuits: general requirements
UL 2231-2	Standard for safety for personnel protection systems for electric vehicle (EV) supply circuits: particular requirements for protection devices for use in charging systems (except sections 24.3, 24.4, 24.5, 24.8, 24.9, 32 and 39)
UL 2271	Batteries for use in light electric vehicle (LEV) applications
UL 2272	Standard for electrical systems for personal e-mobility devices
UL 2580	Batteries for use in electric vehicles
UL 2594	Standard for electric vehicle supply equipment
UL 2595	General requirements for battery-powered appliances
UL 2703	Standard for mounting systems, mounting devices, clamping/retention devices, and ground lugs for use with flat-plate photovoltaic modules and panels
UL 2735	Standard for electric utility meters (except section 15)
UL 2743	Standard for portable power packs
UL 2750	Wireless Power Transfer Equipment for Electric Vehicles
UL 2871	Outline of Investigation for Electric Vehicle (EV) Service and Production Chargers
UL 3141	Outline of investigation for Power Control System
UL 3202	Outline of Investigation for Mobile Electric Vehicle Charging Systems Integrated with Energy Storage Systems
UL 3703	Standard for solar trackers
UL 3730	Standard for photovoltaic junction boxes
UL 4730	Outline of investigation for nameplate, datasheet, and sampling requirements of photovoltaic modules



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UL 5085-1	Low Voltage Transformers - Part 1: General Requirements
UL 5085-2	Low Voltage Transformers - Part 2: General Purpose Transformers
UL 5085-3	Low Voltage Transformers - Part 3: Class 2 and Class 3 Transformers
UL 5500	Remote Software Updates
UL 6703	Standard for connectors for use in photovoltaic systems
UL 6703A	Outline of investigation for multi-pole connectors for use in photovoltaic systems
UL 8703	Outline of investigation for concentrator photovoltaic modules and assemblies
UL 9540	Standard for energy storage systems and equipment (except section 35)
UL 9540A	Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems
UL 9703	Outline of investigation for distributed generation wiring harnesses
UL 9741	UL Standard for Safety Bidirectional Electric Vehicle (EV) Charging System Equipment
UL 60335-2-79	Household and similar electrical appliances — Safety — Part 2-79: Particular requirements for high pressure cleaners and steam cleaners (except sections 14, 17, 30, 31, 32)
UL 60730-1	Automatic electrical controls - part 1: general requirements (except sections 21, 23, 24, Annex D, G, H21, H22, H26.4, H26.11, H26.12 and H26.14)
UL 60950-22	Information technology equipment — Safety — Part 22: Equipment to be installed outdoors (only section 9.1; 9.3 and 10.2)
UL 61215-1	UL Standard for Safety Terrestrial Photovoltaic (PV) Modules – Design Qualification and Type Approval – Part 1: Test requirements
UL 61215-1-1	UL Standard for Safety Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules
UL 61215-2	UL Standard for Safety Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures
UL 61730-1	UL Standard for Safety Photovoltaic (PV) Module Safety Qualification – Part 1: Requirements for Construction
UL 61730-2	UL Standard for Safety Photovoltaic (PV) Module Safety Qualification – Part 2: Requirements for Testing (except sections 10.17 and 10.18)
UL 62093	Photovoltaic system power conversion equipment – Design qualification and type approval (except sections 7.8 and 7.9)
UL 62108	Concentrator photovoltaic (CPV) modules and assemblies - design qualification and type approval
UL 62109-1	Safety of power converters for use in photovoltaic power systems - part 1: general requirements

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UL 62133	Standard for safety for secondary cells and batteries containing alkaline or other non-acid electrolytes - safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications
UL 62368-1	Audio/video, information and communication technology equipment— Part 1: Safety requirements: Equipment containing batteries and their protection circuits (Annex M)
ULC 583	Guide for the Investigation of Electric Battery Powered Industrial Trucks (except clauses 16 and 43)
ULC 2271	Batteries for use in light electric vehicle (LEV) applications
ULC 2272	Standard for electrical systems for personal e-mobility devices
ULC 2580	Batteries for use in electric vehicles (except section 42 and 43)
ULC/ORD-C1703	Flat-plate photovoltaic modules and panels (except sections 5.14, 5.16, 5.19, 5.20, 5.22)
UN/DOT 38.3	Transportation testing required for lithium battery safety during shipping
US 10 CFR Appendix Y to Subpart B of Part 430	Uniform Test Method for Measuring the Energy Consumption of Battery Chargers
US 10 CFR Appendix Y1 to Subpart B of Part 430	Uniform Test Method for Measuring the Energy Consumption of Battery Chargers
VDE 0126-1-1	Automatic disconnection device between a generator and the public low-voltage grid
VDE-AR-N 4105	Power generation systems connected to the low-voltage distribution network Technical minimum requirements for the connection to and parallel operation with low-voltage distribution networks
VDE V 0124-100	Grid integration of generator plants -Generator units -Test requirements for generation units to be connected and operated parallel with the low-voltage distribution networks
Hazardous Locations	
C22.2 NO. 25	Enclosures for use in class ii groups E, F and G hazardous Locations (except section 7.6)
C22.2 NO. 30	Explosion-proof enclosures for use in class I hazardous Locations (except sections 8.8, 8.9, 8.12 and 8.13)
C22.2 NO. 94	Special purpose enclosures industrial products (except sections 6.2, 6.5, 6.6, 6.7, 6.8.2, 6.8.3, 6.10, 6.12.3, 6.13.1 and 6.13.2)
C22.2 NO. 94.2	Enclosures for electrical equipment, environmental considerations (tri-national standard with NMX-J-235/2 ANCE-2015 and UL 50E) (except sections 8.4, 8.5, 8.8, 8.12 and 8.14)
C22.2 NO. 137	Electric luminaires for use in hazardous locations (except sections 3.6.2 and 5.2.5)

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C22.2 NO. 145	Electric motors and generators for use in hazardous (classified) locations (tri-national standard, with NMX-J 652-ANCE and UL 674) (except sections 41, 46, 49.2, 49.3, 49.5, 49.6 and 49.7)
C22.2 NO. 157	Intrinsically safe and non-incendive equipment for use in hazardous locations (except sections 6.2, 6.6, 6.13 and 6.14)
C22.2 NO. 213	Nonincendive electrical equipment for use in class i and ii, division 2 and class iii, divisions 1 and 2 hazardous (classified) locations (bi-national standard with ANSI/ISA 12.12.01) (except sections 11, 15.2, 15.4)
CAN/CSA-C22.2 NO.60079-0	Explosive atmospheres - part 0: equipment – general requirements (except section 26.10)
CAN/CSA-C22.2 NO.60079-1	Explosive atmospheres – part 1: equipment protection by flameproof enclosures "d"
CAN/CSA-C22.2 NO.60079-7	Explosive atmospheres – part 7: equipment protection by increased safety "e" (except sections 6.3.3, 6.3.4.1, 6.3.4.2, 6.3.4.3, 6.3.5, 6.3.7, 6.3.8, 6.3.9, 6.6.4 and 6.7.4)
CAN/CSA-C22.2 NO.60079-11	Explosive atmospheres – part 11: equipment protection by intrinsic safety "i"
CAN/CSA-C22.2 NO.60079-15	Explosive atmospheres – part 15: equipment protection by type of protection "n"
CAN/CSA-C22.2 NO.60079-18	Explosive atmospheres – part 18: equipment protection by encapsulation "m"
CAN/CSA-C22.2 NO.60079-25	Intrinsically safe electrical systems
CAN/CSA-C22.2 NO.60079-26	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
CAN/CSA-C22.2 NO.60079-28	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
CAN/CSA-C22.2 NO.60079-31	Explosive atmospheres – part 31: equipment dust ignition protection by enclosure "t"
CAN/CSA-C22.2 NO.60079-40	Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids and electrical systems
CAN/CSA-C22.2 NO.60079-46	Explosive atmospheres - Part 46: Equipment assemblies
CAN/CSA-C22.2 NO.60529	Degrees of protection provided by enclosures (IP code) (except section 14.2.9)
CSA C22.2 No. 60079-2	Explosive atmospheres – Part 2: Equipment protection by pressurized enclosure "p"
CSA C22.2 No. 60079-29-1	Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases
EN 60079-0	Explosive atmospheres - part 0: equipment – general requirements (except section 26.10)

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EN 60079-1	Explosive atmospheres – part 1: equipment protection by flameproof enclosures "d"
EN 60079-2	Explosive atmospheres – Part 2: Equipment protection by pressurized enclosure "p"
EN 60079-7	Explosive atmospheres – part 7: equipment protection by increased safety "e" (except sections 6.3.3, 6.3.4.1, 6.3.4.2, 6.3.4.3, 6.3.5, 6.3.7, 6.3.8, 6.3.9, 6.6.4 and 6.7.4)
EN 60079-11	Explosive atmospheres – part 11: equipment protection by intrinsic safety "i"
EN 60079-15	Explosive atmospheres – part 15: equipment protection by type of protection "n"
EN 60079-18	Explosive atmospheres – part 18: equipment protection by encapsulation "m"
EN 60079-25	Intrinsically safe electrical systems
EN 60079-26	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
EN 60079-27	Fieldbus intrinsically safe concept (FISCO)
EN 60079-28	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
EN 60079-29-1	Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases
EN 60079-31	Explosive atmospheres – part 31: equipment dust ignition protection by enclosure "t"
EN 60529	Degrees of protection provided by enclosures (IP code) (except section 14.2.9)
EN/ISO 80079-36	Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements
EN/ISO 80079-37	Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres – Non electrical type of protection constructional safety "c" control of ignition source "b", liquid immersion "k"
FM 3600	Electrical equipment for use in hazardous (classified) locations - general requirements (except section 4.2)
FM 3610	Intrinsically safe apparatus and associated apparatus for use in class i, ii & iii, division 1, hazardous (classified) locations
FM 3611	Nonincendive electrical equipment for use in class i and ii, division 2 and class iii, divisions 1 and 2 hazardous (classified) locations (except sections 11 and 12)
FM 3613	Electric flashlights and lanterns for use in class i, ii and iii, division 2, hazardous locations (except sections 4.5 and 4.8)
FM 3615	Explosionproof electrical equipment general requirements
FM 3616	Dust-ignition proof electrical equipment general requirements
FM 3620	Examination Standard for Purged and Pressurized Electrical Equipment for Hazardous (Classified) Locations

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IEC 60079-0	Explosive atmospheres - part 0: equipment – general requirements (except section 26.10)
IEC 60079-1	Explosive atmospheres – part 1: equipment protection by flameproof enclosures "d"
IEC 60079-2	Explosive atmospheres – Part 2: Equipment protection by pressurized enclosure "p"
IEC 60079-7	Explosive atmospheres – part 7: equipment protection by increased safety "e" (except sections 6.3.3, 6.3.4.1, 6.3.4.2, 6.3.4.3, 6.3.5, 6.3.7, 6.3.8, 6.3.9, 6.6.4 and 6.7.4)
IEC 60079-11	Explosive atmospheres – part 11: equipment protection by intrinsic safety "i"
IEC 60079-15	Explosive atmospheres – part 15: equipment protection by type of protection "n"
IEC 60079-18	Explosive atmospheres – part 18: equipment protection by encapsulation "m"
IEC 60079-25	Intrinsically safe electrical systems
IEC 60079-26	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
IEC 60079-27	Fieldbus intrinsically safe concept (FISCO)
IEC 60079-28	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-29-1	Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases
IEC 60079-31	Explosive atmospheres – part 31: equipment dust ignition protection by enclosure "t"
IEC 60529	Degrees of protection provided by enclosures (IP code) (except section 14.2.9)
IEC TS 60079-40	Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids and electrical systems
IEC TS 60079-46	Explosive atmospheres - Part 46: Equipment assemblies
ISA 12.12.01	Nonincendive electrical equipment for use in class i and ii, division 2 and class iii, divisions 1 and 2 hazardous (classified) locations
ISA 12.27.01	Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids
ISA 60079-0	Explosive atmospheres - part 0: equipment – general requirements (except section 26.10)
ISA 60079-1	Explosive atmospheres – part 1: equipment protection by flameproof enclosures "d"
ISA 60079-7	Explosive atmospheres – part 7: equipment protection by increased safety "e" (except sections 6.3.3, 6.3.4.1, 6.3.4.2, 6.3.4.3, 6.3.5, 6.3.7, 6.3.8, 6.3.9, 6.6.4 and 6.7.4)
ISA 60079-11	Explosive atmospheres – part 11: equipment protection by intrinsic safety "i"
ISA 60079-15	Explosive atmospheres – part 15: equipment protection by type of protection "n"

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ISA 60079-18	Explosive atmospheres – part 18: equipment protection by encapsulation "m"
ISA 60079-25	Intrinsically safe electrical systems
ISA 60079-26	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
ISA 60079-27	Fieldbus intrinsically safe concept (FISCO)
ISA 60079-28	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
ISA 60079-31	Explosive atmospheres – part 31: equipment dust ignition protection by enclosure "t"
ISO 80079-36	Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements
ISO 80079-37	Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres – Non electrical type of protection constructional safety "c" control of ignition source "b", liquid immersion "k"
NFPA 496	Standard for Purged and Pressurized Enclosures for Electrical Equipment
NMX-J-235/2-ANCE	Enclosures for electrical equipment, environmental considerations
UL 50E	Enclosures for electrical equipment, environmental Considerations (except sections 8.5, 8.12 and 8.14)
UL 674	Electric motors and generators for use in hazardous (classified) locations (except sections 41, 43, 48.2, 48.3, 48.5, 48.6 and 48.7)
UL 844	Standard for luminaires for use in hazardous (classified) locations (except section 35.2)
UL 913	Standard for intrinsically safe apparatus and associated apparatus for use in class i, ii, iii, division 1, hazardous (classified) locations
UL 1203	Standard for explosion-proof and dust-ignition-proof electrical equipment for use in hazardous (classified) locations (except sections 27, 33.2, 50, 92, 93, 96, 97, 98 and 143)
UL 60079-0	Explosive atmospheres - part 0: equipment – general requirements (except sections 26.10)
UL 60079-1	Explosive atmospheres – part 1: equipment protection by flameproof enclosures "d"
UL 60079-2	Explosive atmospheres – Part 2: Equipment protection by pressurized enclosure "p"
UL 60079-7	Explosive atmospheres – part 7: equipment protection by increased safety "e"
UL 60079-11	Explosive atmospheres – part 11: equipment protection by intrinsic safety "i"
UL 60079-15	Explosive atmospheres – part 15: equipment protection by type of protection "n"
UL 60079-18	Explosive atmospheres – part 18: equipment protection by encapsulation "m"
UL 60079-25	Intrinsically safe electrical systems

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UL 60079-26	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
UL 60079-28	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
UL 60079-29-1	Explosive atmospheres – Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases
UL 60079-31	Explosive atmospheres – part 31: equipment dust ignition protection by enclosure "t"
UL 122701	Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids

